03050105-12

(North Pacolet River)

General Description

The South Carolina portion of 03050105-12 (formerly 03050105-150) is located in Spartanburg County and consists primarily of the ***North Pacolet River*** and its tributaries. The watershed occupies 75,138 acres of the Piedmont region of South Carolina. Land use/land cover in the watershed includes: 60.3% forested land, 24.2% agricultural land, 11.1% urban land, 2.2% forested wetland, 0.9% scrub/shrub land, 0.7% barren land, and 0.6% water.

The North Pacolet River originates in North Carolina and accepts drainage from Vaughn Creek (Lake Lanier) and Wolfe Creek, which originate in South Carolina. After flowing across the state line, the river accepts drainage from Page Creek. Hooper Creek, Collinsville Creek, and Bear Creek enter the river next; all originating in North Carolina. Obed Creek drains into the river at the base of the watershed. There are a total of 149.9 stream miles and 103.5 acres of lake waters in this watershed, all classified FW with the exception of Vaughn Creek, which is classified ORW.

Surface Water Quality

Station #	Type	Class	Description
B-099-7	BIO	ORW	VAUGHN CREEK AT UNNUMBERED ROAD, 0.4 MI S OF S-23-319
B-099A	S/W	FW	LAKE LANIER ON # 1 INLET IN GREENVILLE COUNTY
B-099B	S/W	FW	LAKE LANIER AT DAM IN GREENVILLE COUNTY
B-719	BIO	FW	NORTH PACOLET RIVER AT S-42-128
B-301	S/W	FW	PAGE CREEK AT S-42-1258, 1.7 MI SE LANDRUM
B-026	P/W	FW	NORTH PACOLET RIVER AT S-42-956, 6.5 MI E LANDRUM
B-126	W/INT	FW	NORTH PACOLET RIVER AT S-42-978, 1 MI SE OF FINGERVILLE
RS-03514	RS03/BIO	FW	OBED CREEK AT UNNUMBERED CHRISTOPHER RD OFF SC11
B-791	BIO	FW	OBED CREEK AT SR 42

Vaughn Creek (B-099-7) - Aquatic life uses are fully supported based on macroinvertebrate community data.

Lake Lanier – There are two SCDHEC monitoring stations along Lake Lanier. A significant decreasing trend in total phosphorus concentration suggests improving conditions for this parameter at both sites. At the uplake site ***(B-099A)***, aquatic life uses are fully supported; however, there is a significant decreasing trend in dissolved oxygen concentration. There is a significant increasing trend in pH. Recreational uses are fully supported at this site; however, there is a significant increasing trend in fecal coliform bacteria concentration. At the downlake site ***(B-099B)***, aquatic life and recreational uses are fully supported.

North Pacolet River – There are three SCDHEC monitoring stations along the North Pacolet River. At the furthest upstream site ***(B-719)***, aquatic life and recreational uses are fully supported. At the midstream site ***(B-026)***, aquatic life uses are fully supported; however, there is a significant decreasing trend in dissolved oxygen concentration. There is a significant decreasing trend in pH. Significant decreasing trends in five-day biochemical oxygen demand,

turbidity, total phosphorus concentration, and total nitrogen concentration suggest improving conditions for these parameters. Recreational uses are not supported at this site due fecal coliform bacteria excursions. At the downstream site ***(B-126)***, aquatic life uses are fully supported; however, there is a significant increasing trend in five-day biochemical oxygen demand. There is a significant decreasing trend in pH. Significant decreasing trends in turbidity and total phosphorus concentration suggest improving conditions for these parameters. Recreational uses are partially supported at this site due fecal coliform bacteria excursions.

Page Creek (B-301) - Aquatic life uses are fully supported; however, there is a significant decreasing trend in dissolved oxygen concentration. There is a significant decreasing trend in pH. Recreational uses are not supported due to fecal coliform bacteria excursions.

Obed Creek - There are two SCDHEC monitoring stations along Obed Creek. At the upstream site ***(RS-03514)***, aquatic life uses are partially supported based on macroinvertebrate community data. Recreational uses are partially supported at this site due to fecal coliform bacteria excursions. At the downstream, site ***(B-791)***, aquatic life uses are fully supported based on macroinvertebrate community data.

NPDES Program

Active NPDES Facilities

RECEIVING STREAM ***FACILITY NAME*** ***PERMITTED FLOW @ PIPE (MGD)***	***NPDES#*** ***TYPE*** ***COMMENT***
NORTH PACOLET RIVER SSSD/FINGERVILLE WWTP PIPE #: 001 FLOW: 0.020	SC0047759 MINOR DOMESTIC
NORTH PACOLET RIVER TRIBUTARY MILLIKEN & CO./NEW PROSPECT MILL PIPE #: 001 FLOW: M/R	SC0023540 MINOR INDUSTRIAL
NORTH PACOLET RIVER CITY OF LANDRUM/PAGE CREEK WWTP PIPE #: 001 FLOW: 1.0	SC0026875 MAJOR DOMESTIC
NORTH PACOLET RIVER LITTLE ACRES SAND CO./N. PACOLET MINE PIPE #: 001 FLOW: M/R	SCG730177 MINOR INDUSTRIAL
NORTH PACOLET RIVER TRIBUTARY VM HENSON/BIRD MOUNTAIN MINE PIPE #: 001 FLOW: M/R	SCG730598 MINOR INDUSTRIAL
NORTH PACOLET RIVER CHAPMAN GRADING/MCMILLAN MINE PIPE #: 001 FLOW: M/R	SCG730547 MINOR INDUSTRIAL

Nonpoint Source Management Program

Mining Activities

MINING COMPANY *MINE NAME*	*PERMIT #* *MINERAL*
LITTLE ACRES SAND CO. NORTH PACOLET RIVER MINE	1037-83 SAND
SLATER PROPERTIES NORTH PACOLET SAND	1001-83 SAND
CHAPMAN GRADING & CONCRETE CO. MCMILLAN MINE	0383-83 SAND & GRAVEL

Water Quantity

WATER USER *STREAM*	*REGULATED CAP. (MGD)* *PUMPING CAP.(MGD)*
SWS LANDRUM WTP VAUGHN CREEK TRIBUTARY	0.2 0.2
SWS LANDRUM WTP LAKE LANIER - VAUGHN CREEK	1.0 2.0
TOWN OF TRYON, N.C. LAKE LANIER	6.0 9.0

Growth Potential

There is a low potential for growth in this watershed, which contains a portion of the City of Landrum. I-26 bisects the watershed and some growth may result around interstate interchanges.

Watershed Protection and Restoration Strategies

Total Maximum Daily Loads (TMDLs)

TMDLs were developed for SCDHEC and approved by EPA for fecal coliform bacteria in the **North Pacolet River** at water quality monitoring sites ***B-026*** and ***B-126***. Approximately 40% of the drainage to the North Pacolet watershed is in North Carolina. Currently The Town of Lyman operates a WWTP that discharges into the river. The North Pacolet River watershed is not within a Municipal Separate Storm Sewer System (MS4) designated area. Possible sources of fecal coliform bacteria into the North Pacolet River include out-of-state sources, cattle in creeks, failing onsite wastewater disposal systems, pets, and wildlife. The TMDL specifies reductions in the load of fecal coliform bacteria into the North Pacolet River of 52% (B-026) and of 75% (B-126) in order for the river to meet the recreational use standard.

A TMDL was developed for SCDHEC and approved by EPA for fecal coliform bacteria in **Page Creek** at water quality monitoring site ***B-301***. No currently active facilities that have fecal coliform limits in their NPDES permits discharge into the creek. The watershed is not within a MS4 designated area. Possible sources of fecal coliform bacteria in Page Creek include leaking sewers, failing onsite wastewater disposal systems, urban residential runoff, pets, and

wildlife. The TMDL specifies a reduction in the load of fecal coliform bacteria into Page Creek of 62% in order for the creek to meet the recreational use standard.

Funding for TMDL implementation activities is currently available. For more information, see the Bureau of Water web page www.scdhec.gov/water or call the Watershed Program at (803) 898-4300.